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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/772,124	02/04/2004	Stephen R. Fahnestock	CL2175USNA	4279
23906 7:	590 01/05/2006		EXAMINER	
E I DU PONT DE NEMOURS AND COMPANY			WAX, ROBERT A	
	NT RECORDS CENTER		ART UNIT	PAPER NUMBER
BARLEY MIL	L PLAZA 25/1128		ART ONT	FAFER NUMBER
4417 LANCASTER PIKE			1653	
WILMINGTON, DE 19805			DATE MAILED: 01/05/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/772,124	FAHNESTOCK ET AL.			
Office Action Summary	Examiner	Art Unit			
	Robert A. Wax	1653			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	<b>l.</b> lely filed  the mailing date of this communication.  O (35 U.S.C. § 133).			
Status					
<ul> <li>1) ⊠ Responsive to communication(s) filed on 23 No.</li> <li>2a) ⊠ This action is FINAL. 2b) ☐ This</li> <li>3) ☐ Since this application is in condition for allowant closed in accordance with the practice under E</li> </ul>	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ⊠ Claim(s) 1,2 and 5-22 is/are pending in the app 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,2 and 5-22 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the output of of the	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 08112005.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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**DETAILED ACTION** 

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Introduction

1. The response filed November 23, 2005 has been received and entered. The prior

objection to the specification with regard to the discrepancy between formula 1 and

claim 7 is withdrawn since Examiner no longer sees any discrepancy. The previous

rejection under 35 USC 103(a) is hereby withdrawn. The rejection under 35 USC

102(b) over Philippe et al. is, however, maintained.

Information Disclosure Statement

2. The information disclosure statement filed August 11, 2005 has not been considered

because the references have already been cited in the previous Office action by the

examiner. The references have therefore been lined through on the attached copy of

the PTO-1449.

Claim Rejections - 35 USC § 102

3. The text of those sections of Title 35, U.S. Code not included in this action can be

found in a prior Office action.

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4. Claims 1, 2 and 5-22 are again rejected under 35 U.S.C. 102(b) as being clearly anticipated by Philippe et al. (6,280,747).

Philippe et al. teach the claimed cosmetic ingredients in combination with the claimed protein; the sequence recited in instant claim 7 is taught in Figure 6A and the sequence recited in instant claim 8 is taught in Figure 7A. Philippe et al. do not explicitly state that their proteins are water-soluble but since the same monomers are taught in the same number of repeats, the resulting proteins must inherently be water-soluble.

## Response to Arguments

5. Applicant's arguments filed November 23, 2005 have been fully considered but they are not persuasive. Applicants argue that the amendment to recite expression of the silk proteins in microbes, purification at a temperature of less than 20°C and redissolving in water overcomes the anticipation rejection. Applicants further argue that the proteins of the instant invention are "far in excess" in molecular weight of the proteins of Philippe et al.

The first argument is not convincing for two reasons. First, there is no information that the method of making the proteins now recited in the claims affects the structure or solubility of the proteins in any way. It is well established that patentability of a product-by-process claim resides in the product. In the absence of convincing evidence to the contrary, therefore, the proteins of Philippe et al. are the same as the instant proteins. This is further evidenced by the fact that the proteins of Philippe et al.

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are disclosed to have a molecular weight from 10-400 kDa (10,000-400,000 Da) as compared to the molecular weight of the claimed proteins of 40,000-500,000 Da. Clearly, these are comparable ranges.

The other reason the new limitation fails to distinguish over the invention of Philippe et al. is that purification at a temperature of less than 20°C is conventional, as taught by Yang. Yang teaches purification of recombinantly produced spider silk protein at 4°C, which is less than 20°C. A copy of Yang is not being furnished with this Office action since Applicants' attorney already has a copy, sent in the Office action of September 1, 2005 in Serial No. 10/704,337, attorney docket number CL2132 US NA.

For these reasons the above rejection is maintained.

## Conclusion

- 6. No claim is allowed.
- 7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later

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than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert A. Wax whose telephone number is (571) 272-0623. The examiner can normally be reached on Monday through Friday, between 9:00 AM and 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon P. Weber can be reached on (571) 272-0925. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robert A. Wax Primary Examiner Art Unit 1653